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Application Serial No. 10/632,898

Responsive to Office Action dated 5 May 2004

AMENDMENTS TO THE SPECIFICATION

I. Please replace the entire Specification, Pages 1-9, with the following amended Specification:

FIELD OF THE INVENTION

The invention relates to a ~~plants~~ plant growing device, and in particular, to a ~~plants~~ plant growing device for ~~containing~~ meeting various requirements of different consumers and promoting agriculture

DESCRIPTION OF THE PRIOR ART

~~Conventional~~ The conventional growing manner of plants or vegetable, such as ~~loosing~~ using earth, seeding, fertilizing, disinfecting, harvesting or the like, also with routine watering and weeding is used to produce various plants and vegetables for appreciating and eating. However, due to an increasing environmental consciousness and care of health, people try ~~all~~ their best to avoid using insecticide[[,]]. ~~thus,~~ Thus, organic vegetables ~~marked of hygiene, environmental protection, noninsecticide, poisonless and residual of chemical composition~~ are becoming the most popular and rapidly developing class of vegetables ~~to the consumer~~ in the 21st century. Refined agriculture is popular because ~~that~~ everyone can eat fresh vegetables grown by himself[[,]]. Nevertheless,

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Nevertheless, although refined agriculture can avoid insecticide pollution, it requires ~~loosing~~ using earth, fertilizing and so forth, and in particular, it is difficult for a beginner to effectively control the appropriate timing ~~of fertilizing~~ for fertilization and the quantity of fertilizer to be used, which directly relates to plant growth, ~~plants growing~~; ~~The reason described above makes plants growing not to be completely and effectively controlled, and causes to unstable growth period, therefore, people can't enjoy fresh vegetables anytime.~~

SUMMARY OF THE INVENTION

An object of the invention is to provide a ~~plants~~ plant growing device relating to various requirements of consumers and farmers to develop different products[[]]. ~~consumer~~ Consumers and farmers can selectively use the ~~plants~~ plant growing device to increase the quantity of agricultural output ~~according to the requirement of consumer and farmers.~~

Another object of the invention is to provide a ~~plants~~ plant growing device especially for promotion of industry ~~promotion~~ and cost reduction, the ~~plants~~ plant growing device provides a time-saving and convenient manner for growing plants.

Another object of the invention is to provide a ~~plants~~ plant growing device[[]] ~~that people conventionally use only herbicide to kill the weeds, however, herbicide severely pollutes nature and environment people live therein, the present invention uses a seed~~

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fixing film to prevent weeds from growing. The seed fixing film is composed of a weavless cloth, paper or various ~~artifaial~~ artificial materials, and it is determined whether or not to add several holes in the ~~on-said~~ seed fixing film according to the various material thereof.

Another object of the invention is to provide a ~~plants~~ plant growing device implemented to pot plants and ~~outdoors~~ grow plants outdoors in wide areas, such that the size of the growing area is changeable.

The ~~plants~~ plant growing device having advantages described above comprises: a seed fixing film added having an upper thin film or gel thereon ~~according to requirement:~~ equidistantly dispose one or more plant seeds equidistantly disposed on the seed fixing film~~[[,]]; and cover a thin film or gel~~ covering on the seed fixing film ~~along with environmental requirement and requirement of growing plants,~~ in order to fix the seeds ~~and turn into a single layer type, and the-~~ thereon. The device described above can be banded as a reel or be folded as in computer form paper, for saving space, ~~thereby, the device is implemented according to the size of growing area and is not confined to space.~~

BRIEF DESCRIPTION OF THE DRAWINGS

The drawings disclose an illustrative embodiment of the present invention which serves to exemplify the various advantages and objects hercof, and are as follows:

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Figure 1 is a schematic view of the first growing area of ~~plants~~ plant growing device according to the invention;

Figure 2 is a schematic view of the second growing area of ~~plants~~ plant growing device according to the invention;

Figure 3 is a schematic view of the third growing area of ~~plants~~ plant growing device according to the invention;

Figure 4 is a schematic view of the fourth growing area of ~~plants~~ plant growing device according to the invention;

Figure 5 is a schematic view of the fifth growing area of ~~plants~~ plant growing device according to the invention;

Figure 6 is a schematic view of the sixth growing area of ~~plants~~ plant growing device according to the invention;

Figure 7 is a schematic view of the seventh growing area of ~~plants~~ plant growing device according to the invention;

Figure 8 is a schematic view of the eighth growing area of ~~plants~~ plant growing device according to the invention;

Figure 9 is a schematic view of the ninth growing area of ~~plants~~ plant growing device according to the invention;

Figure 10 is a schematic view of the tenth growing area of ~~plants~~ plant growing device according to the invention;

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Figure 11 is a schematic view of not setting of ~~plants~~ plant growing device according to the invention;

Figure 12A is a schematic view of the ~~plants~~ plant growing device according to the invention to be bound for storing;

Figure 12B is a schematic view of the ~~plants~~ plant growing device according to the invention to be folded as in computer form paper;

Figure 13A is a schematic view of ~~plants~~ the plant growing device according to the invention implemented in large farm;

Figure 13B is a schematic view of ~~plants~~ the plant growing device according to the invention implemented in a pot;

Figure 14 is a schematic view of an exemplary embodiment of ~~plants~~ the plant growing device according to the invention;

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to Fig. 1, a schematic view shows a ~~plants~~ plant growing device according to the invention, ~~comprises:~~

The device includes a seed fixing film 1, said seed fixing film 1 is a dissolvable type or an ~~undissolvable~~ indissolvable type. ~~In accordance with various material, if said~~ If the seed fixing film 1 is an ~~undissolvable~~ indissolvable type, it also has the function of blocking the growth of grass, anti-growing; ~~besides, during the~~ During manufacture

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process of said the seed fixing film 1, ~~the raw material of said seed film is added~~ seed preservative, nutrients, fertilizer, insecticide, germs or various special additives according to varied requirement and function; can be added to the raw materials of the seed film. a seed 2, ~~directly reserving a~~ A growing space for the seed 2 is reserved when the material of said the seed fixing film 1 is formed and is not yes dry. ~~yet one~~ One or more seeds are equidistantly disposed on said the seed fixing film 1 that is not dry, the seeds 2 are fixed after said the seed fixing film 1 dry.

Referring to Fig. 2, a schematic view shows another fixing ~~manner~~ arrangement of the seeds. ~~[[,]]~~ said The seed fixing film 1 is dissolvable and ~~spread~~ with a thick gel layer 3, ~~one spread thereon and~~ or more seeds 2 are equidistantly disposed on said the seed fixing film 1 when said the gel layer 3 is not dry, making the seeds 2 sink into and close to said the seed fixing film 1, ~~the~~ The seeds 2 are fixed after said gel layer 3 has dried. ~~Dry, and spreading~~ The thick gel 3 can be spread around the seeds 2 for extending dissolved the dissolving time of said the gel film 3 to achieve a grass growth blocking function of ~~grass-anti-growing~~.

Referring to Fig. 3, the user can spread a thin gel layer 3 on said the seed fixing film 1, ~~one~~ One or more seeds 2 are then disposed ~~of at a fixed amount and position on~~ said the seed fixing film 1, and then covered with a thin gel layer 4, locating the seeds 2 between said the seed fixing film 1 and said the thin gel layer 4.

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Referring to Fig. 4, ~~reserving some placing spaces~~ 11 are reserved on said ~~the~~ seed fixing film 1 for the seed 2, ~~spreading a~~ A gel layer 3 is spread on the other positions, ~~when and then~~ the seeds 2 is are placed in said ~~placing the~~ spaces 11 ~~[[,]]~~ and a thin film layer 4 is covered thereon, ~~the~~ The steps described above ~~make~~ places the seeds 2 covered ~~with said~~ between the seed fixing film 1 and said ~~the~~ thin film 4.

Referring to Fig. 5, the surface of said ~~the~~ seed fixing film 1 is spread with a grid-like gel 3, ~~the~~ in a grid-like pattern. The seeds 2 are disposed in the spaces of the said grid-like pattern of the gel 3, and a thin film layer 4 is covered thereon, ~~the~~ The steps described above places makes the seeds 2 covered ~~with and to be~~ growable between said ~~the~~ seed fixing film 1 and said ~~the~~ thin film 4.

Referring to Fig. 6, the surface of said ~~the~~ seed fixing film 1 is spread with a annular gel 3, ~~the~~ in an annular pattern around each seed space. The seeds 2 are disposed in said the spaces circumscribed by the annular pattern of gel 3, and a thin film layer 4 is covered thereon, ~~the~~ The steps described above ~~make~~ place the seeds 2 covered ~~with and to be~~ growable between said ~~the~~ seed fixing film 1 and said ~~the~~ thin film 4.

Referring to Fig. 7, ~~cutting said the~~ seed fixing film 1 is cut to form into several segment film segments 12 in the shape of a semicircle, or a square, or other geometric figures, ~~the~~ The film segments 12 is are spread with a gel layer 3, ~~putting and~~ the seeds 2 are placed on said ~~the~~ film segments 12, then the film segments 12 ~~is reversed and are~~

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stuck to the remaining surface of said the seed fixing film 1, ~~and then~~ Then, the seeds 2 are fixed ~~in said~~ to the film 12.

The gel layer 3 that is spread on said the seed fixing film 1 ~~is added~~ has seed preservative, nutrients, fertilizer, insecticide, germs or various special additives according to varied requirement and function that may be added. Additionally, said gel layer 3 can combine the additive ~~comprises~~ functions of promoting plants growing plant growth and inhibit grass anti-growing growth.

Referring to Fig. 8, if said the seed fixing film 1 is undissolvable not dissolvable, the user can cut several score lines sears 13 in ~~the type of~~ a cross, a star or the other pattern shape and disposing position the seeds 2 on the score lines sears 13, ~~when the~~ When the seeds 2 sprout, their they strike roots will extend downwardly through the score lines said sears 13.

Referring to Fig. 9, if said the seed fixing film 1 ~~comprises a functions to inhibit~~ of grass growth anti-growing, the user can form dispose one or more holes 14 in the ~~on said~~ seed fixing film 1, ~~wherein the~~ The size of a hole 14 size is bigger larger than the size of a seed 2 size, one One end of the hole 14 is covered with a thin film 4 for closing the hole 14, and ~~covering~~ the other end of the hole 14 is covered with a thin film 4 after the seed 2 is put into said hole 14, ~~from the other end of the hole 14 for fixing the seed 2 in said hole 14, when~~ When the seeds 2 sprout, they strike their roots extend downwardly through said the thin film 4.

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Referring to Fig. 10, if said the seed fixing film 1 comprises a functions to inhibit ~~of grass anti-growing growth~~, disposing one or more small holes 15 ~~on said~~ are formed in the seed fixing film 1. The [[,]] wherein the hole 15 has a size that is smaller than the size ~~of a seed 2. The size, then disposing the seed 2 is disposed~~ in the small hole 15. ~~The, said~~ seeds 2 are fixed by a gel 3 or by covering them with a thin film. When, when the seeds 2 sprout, ~~they strike~~ their roots extend downwardly through said small holes 15.

Further, said the seed fixing film 1 and said gel layer 3 is added have seed preservative, nutrients, fertilizer, insecticide, germs or various special additives added thereto according to the requirement, or the above-described additives are directly disposed on or around the seeds 2, or blended with the seeds 2 for providing required nutrition ~~of for growth to of~~ the seeds 2. ~~The, and said seed fixing film 1 is composed of~~ a weavless cloth, paper or various artificial artificial materials. [[,]] It is determined whether or not to add several holes ~~on said in the seed fixing film 1 according to various~~ based on the material of the seed fixing film and the functions of for helping plants ~~growing grow and becoming a grass anti-growing film for preventing grass from~~ growing.

In addition, said the seed fixing film 1 is also configured with a net film layer 7 to ~~prevent protect growing plants growing~~ from insects, because imagos ~~does most do much~~ damage to the plants, ~~like laying eggs by butterfly, as do~~ snails, spiral shells, and birds. It

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~~do lots harm to crops, it is a big work of plants growing~~ large task to keep the plants from pests from growing plants.

Referring to Fig. 11, the net film layer 7 is light and thin, and the growing plants can easily prop up said net film layer 7 ~~for not confining~~ so as not to confine the growth of the plants. Elastic ~~elastic~~ parts 71 are located on the two ends of said net film layer 7 for providing the space needed for the growing plants. The growing, ~~the growing~~ plants can easily prop up said the net film layer 7 ~~for to not confining~~ confine the growth of the plants. Furthermore, the ~~furthemore, said~~ net film layer 7 is pervious to water and light, and is rain-resistant, wind-resistant or the like. The ~~;~~ said net film layer 7 also prevents birds and ~~above-described~~ insects from invading and destroying the plants.

Referring to Fig. 12A, and 12B, in any of the arrangements ~~ease of using manners~~ described above, or whether adding a net film layer 7 is added ~~;~~ said the seed fixing film 1 is pressed to form a band ~~se-as~~ to be bound as in a roll 51 for ~~storing~~ storage or be folded as in computer form paper 52 for saving the space. The ~~;~~ and said seed fixing film 1 can be used ~~according to~~ practically for a growing area, settling essential land problems associated with ~~of plants~~ growing plants.

The application of the invention depends on the requirements of the grower, appropriate land, the size of the growing area and so forth. Referring to Fig. 13A, a schematic view shows applying application of the invention which is bound as a roll to a wide farmland. The invention is ~~;~~ it's convenient to use ~~the invention~~ and the speed of

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seeding is faster than the conventional method. way; Referring to Fig. 13B, the invention can be cut into suitable shapes and sizes according to the size of the growing pot, ~~the user can do it by himself and cultivate his mind.~~

The invention provides a simple function of beautifying the environment. Seed fixing film 1 is easily ~~to be~~ cut, ~~therefore the use grows~~ and various flower seeds can be grown on the seed fixing film 1. ~~The~~ ~~the~~ seeds can be are separated by strains and colors ~~to form~~ ~~and formed~~ a beautiful drawing, and because that seed fixing film 1 grows no grass, the result it seems more colorful. Referring to Fig. 14, the user cuts different plant seeds into shapes or characters, depending depends on what he needs, pattern 61 uses red flower seeds, background 62 uses green plant seeds, and characters 63 ~~uses~~ use yellow flower seeds. All ~~and all~~ the seeds are arranged in order to ~~an~~ easily cut and conveniently made into a gardening works, ~~it is expectant~~ work. It is expected to see the seeds growing grow into flowers or plants and then become a beautiful work.

~~When comparing to above described citation and prior art, the plants~~ The plant growing device provided by the invention has the following advantages:

1. The invention ~~is to~~ provides a plants plant growing device relating to various requirements of consumers and farmers to develop different products. Consumers ~~consumer~~ and farmers can selectively use the plants plant growing device to increase the quantity of agricultural output ~~according to the requirement of consumer and farmers, especially~~ and for industrial industry promotion and cost reduction.

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2. The invention covers the seeds with a thin film that ~~is added~~ has seed preservative, nutrients, fertilizer, insecticide, germs or various special additives added thereto, directly providing required nutrition for ~~of~~ growth to the seed, ~~caneeling~~ eliminating the complicated step of fertilizing and simplifying the growing process of ~~growing, therefore, the invention is progressive.~~

3. The invention can simplify the process of growing plants. The growing, the user just needs to respectively apply the invention to a growing medium or the surface of ~~land, and the soil.~~ The invention is not confined to any particular size of space and can also make a big crop.

4. The seed fixing film of the invention is a dissolvable type or an ~~undissolvable~~ indissolvable type ~~in accordance with various material, farmers or users can apply the film to various growing lands, thus, the invention comprises various~~ embodiment.

Many changes and modifications in the above-described embodiment of the invention can, of course, be carried out without departing from the scope thereof. Accordingly, ~~to promote the progress in science and the useful arts,~~ the invention is disclosed and is intended to be limited only by the scope of the appended claims.